

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number  
**WO 2005/080767 A1**

(51) International Patent Classification<sup>7</sup>: **F02B 41/10**,  
33/36, 37/12, F01C 21/16, 11/00, 1/12, F02D 41/00

(21) International Application Number:  
PCT/GB2005/000622

(22) International Filing Date: 18 February 2005 (18.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0403718.0 19 February 2004 (19.02.2004) GB

(71) Applicant (for all designated States except US): EPICAM  
LIMITED [GB/GB]; Lintech Court, The Grip, Linton,  
Cambridgeshire CB1 6XN (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): DYE, Anthony,  
Osborne [GB/GB]; 8 Thornton Court, Girton, Cambridge  
CB3 0NS (GB).

(74) Agent: FREEMAN, Avi; Beck Greener, Fulwood House,  
12 Fulwood Place, London WC1V 6HR (GB).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

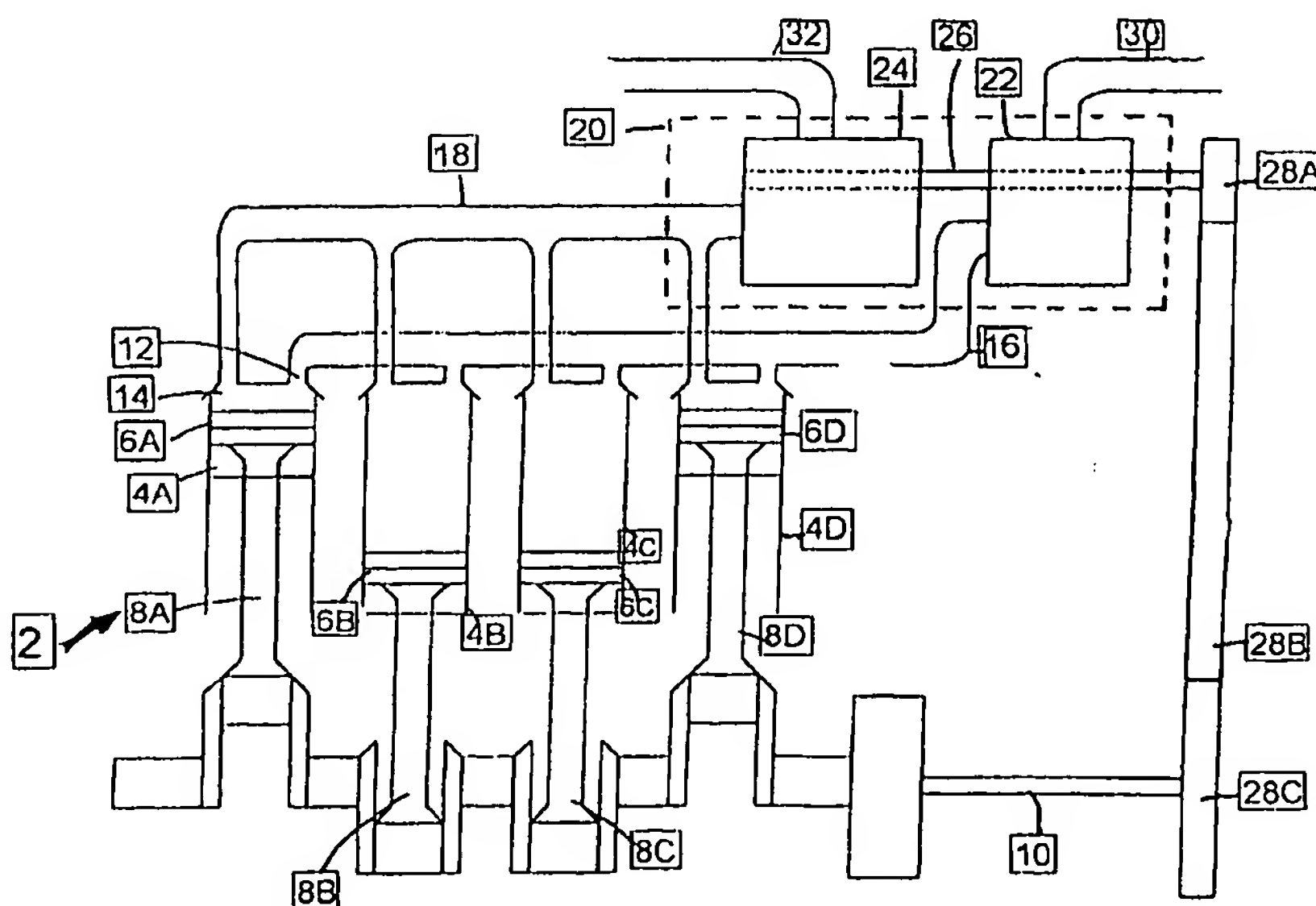
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: AN ENGINE AND AN APPARATUS FOR PROVIDING FORCED ASPIRATION TO AN ENGINE



(57) Abstract: The invention provides an apparatus (20) for providing forced aspiration to an internal combustion engine (2). The apparatus comprises a first displacement device (24) for being driven by exhaust gas from an internal combustion engine to which the apparatus is in use mounted and, a second displacement device (22) operable to compress combustion gas for provision to an engine to which the apparatus is in use mounted. The first and second displacement devices are coupled such that when in use the first displacement device (24) is driven and causes the second displacement device (22) to operate.

WO 2005/080767 A1